

Index to Authors—Volume 29, 1994

Alessio, Lorenzo, 335

Apostoli, Piero, 335

Arakawa, Eiji, 331

Archana, A., 349

Armstrong, John L., 301

Arnaud, Phillippe, 323

Asad, Lidia M.B.O., 291

Asad, Nasser R., 291

Axelsson, Lars, 63

Azeddouq, Houssine, 229

Bahl, Hubert, 13

Banerjee, S., 349

Bhatnagar, Raj. K., 255

Biavati, Bruno, 7

Bisen, P.S., 49, 319

Boettcher, Katherine J., 279

Botton, B., 1

Boutinnes, Philippe, 213

Bové, Joseph-Marie, 23

Bowien, Botho, 157

Brantl, Christiane, 263

Brusa, Tullio, 7

Buchholz, Bärbel, 157

Caballero, Javier Francisco, 119

Cabibbo, Enzo, 335

Canzi, Enrica, 7

Casali, Cesar H., 295

Castillo, Francisco, 119, 241

Castric, Peter, 19

Cayol, Jean-Luc, 269

Chiao, Juishen, 223

Chou, Hsueh-Mei, 201

Chou, Wing-Ming, 201

Chua, Steven S., 151

Coker, Pamela S., 57

Collins, Matthew D., 69

da Silva, André B., 291

Daniel, Henry, 171

de Almeida, Carlos E.B., 291

Degnan, Beverley A., 43

Dharmalingam, K., 101

Domenech, Carlos E., 193, 295

East, Alison K., 69

Eftekhari, Fereshteh, 37

El-Zaatri, Fouad A.K., 177

Engstrand, Lars, 177

Fardeau, Marie-Laure, 269

Felix, Joceline V., 207

Ferrari, Annamarie, 7

Fewson, Charles A., 273

Finegold, Sydney M., 125

Flint, Harry J., 139

Fujiwara, Taketomo, 53

Fukumori, Yoshihiro, 53

Gelmi, Marina, 335

Graham, David Y., 177

Gupta, Rani, 287

Hachem, Charles Y., 177

Hamasaki, Mitsuhiro, 217

Hastings, John W., 207

Hespell, Robert B., 343

Holck, Askild L., 63

Huang, Tan-Chi, 201

Hubert, Jean-Claude, 249

Ishii, Takaaki, 91

Itoh, Kenichiro, 331

Joblin, K.N., 133

Kakita, Yukari, 217

Katerov, Viacheslav, 31

Kiffer, E., 1

Kiser, Kevin B., 323

Koga, Yosuke, 53

Kumazawa, Youichi, 53

Kusum, Mayura, 331

Labbé, Ronald G., 163

Laigret, Frédéric, 23

Larsen, Lone M., 95

Lefèvre, G., 1

Legrand, Stéphane, 213

Leisner, Jorgen J., 95

Leitão, Alvaro C., 291

Lett, Marie-Claire, 249

Lisa, Teresita A., 193, 295

Ljungh, Åsa, 113

Lucchesi, Gloria I., 193, 295

Macfarlane, George T., 43

Magot, Michel, 269

Martin, Jennifer, 139

Mathumathi, R., 101

McElreath, Susan D., 57, 145

McFadden, Bruce A., 171

Meister, Martina, 157

Mendoza, Leonel, 151

Miake, Fumio, 217

Momany, Michelle, 151

Moreno-Vivian, C., 241

Nair, G. Balakrish, 331

Nakashima, Yukihiko, 217

Nakazato, Tamotsu, 331

Narberhaus, Franz, 13

Naser, Saleh A., 177

Navarro, Antonio R., 87

Nitzan, Yeshayah, 125

Nordsiek, Gabriele, 157

Ogandjanian, Elena S., 187

Ohba, Michio, 91

Okitsu, Tadayuki, 331

Ollivier, Bernard, 269

Panoff, Jean-Michel, 213

Papathanasiopoulos, Maria A.

207

Paulsson, Marianne, 114

Peroni, Laura, 237

Petitdemange, H., 79

Pich, Andreas, 13

Pizzi, Raul, 237

Porru, Stefano, 335

Porteous, L. Arlene, 301

Ratnakumari, T. Seetha, 101

Raval, G., 79

Ravizzola, Giuseppe, 237

Renaudin, Joël, 23

Reyes, F., 241

Reyssel, Gilles, 229

Rinkel, Monique, 249

Robas, Nathalie, 263

Roldán, María Dolores, 119,

241

Roux, Brigitte, 249

Ruby, Edward G., 279

Rutili, Anna, 7

Sacchi, Giuseppe, 237

Satyanarayana, T., 349

Saxena, R.K., 287

Schalén, Claes, 31

Schiller, Neal L., 37

Current Microbiology

An International Journal

© Springer-Verlag New York Inc. 1994

Schillinger, Ulrich, 63

Schmidt, Michael G., 323

Seidler, Ramon J., 301

Selvapandian, A., 255

Sharmila, P., 287

Shaw, Jie-Fu, 201

Shih, Neng-Jen, 163

Shimada, Toshio, 331

Singh, Surendra, 49, 319

Smith, Arlene A., 207

Smith, Russell L., 311

Stevens, S.E., Jr., 311

Strych, Ulrich, 353

Sudirman, L. Idwan, 1

Szániszlo, Paul J., 151

Tainter, Frank H., 57, 145

Takeda, Yoshifumi, 331

Thammavongs, Bouachanh,
213

Tidemand, Jacob, 95

Totolian, Artem A., 31

Trchounian, Armen A., 187

Turano, Adolfo, 237, 335

Vanian, Polina A., 187

von Holy, Alexander, 207

Wadström, Torkel, 113

Wales, Martin R., 273

Watanabe, Kenji, 217

Watrud, Lidia S., 301

Wexler, Hannah M., 125

Williams, A.G., 133

Winkler, Ulrich K., 353

Withers, S.E., 133

Wohlfarth, Susanne, 353

Yamai, Shiro, 331

Yamanaka, Tateo, 53

Yang, Xiaoyu, 171

Yang, Yunliu, 223

Yao, Jun Mei, 57, 145

Yao, Wensheng, 223

Ye, Fengchun, 23

Yuan, Hsiao-Freng, 201

Zavarzin, George A., 109

Zhang, Jun-Xian, 139

Zhilina, Tatjana N., 109

Zinebi, S., 79

Index to Authors—Volume 29, 1994

Alessio, Lorenzo, 335

Apostoli, Piero, 335

Arakawa, Eiji, 331

Archana, A., 349

Armstrong, John L., 301

Arnaud, Phillippe, 323

Asad, Lidia M.B.O., 291

Asad, Nasser R., 291

Axelsson, Lars, 63

Azeddouq, Houssine, 229

Bahl, Hubert, 13

Banerjee, S., 349

Bhatnagar, Raj. K., 255

Biavati, Bruno, 7

Bisen, P.S., 49, 319

Boettcher, Katherine J., 279

Botton, B., 1

Boutinnes, Philippe, 213

Bové, Joseph-Marie, 23

Bowien, Botho, 157

Brantl, Christiane, 263

Brusa, Tullio, 7

Buchholz, Bärbel, 157

Caballero, Javier Francisco, 119

Cabibbo, Enzo, 335

Canzi, Enrica, 7

Casali, Cesar H., 295

Castillo, Francisco, 119, 241

Castric, Peter, 19

Cayol, Jean-Luc, 269

Chiao, Juishen, 223

Chou, Hsueh-Mei, 201

Chou, Wing-Ming, 201

Chua, Steven S., 151

Coker, Pamela S., 57

Collins, Matthew D., 69

da Silva, André B., 291

Daniel, Henry, 171

de Almeida, Carlos E.B., 291

Degnan, Beverley A., 43

Dharmalingam, K., 101

Domenech, Carlos E., 193, 295

East, Alison K., 69

Eftekhari, Fereshteh, 37

El-Zaatri, Fouad A.K., 177

Engstrand, Lars, 177

Fardeau, Marie-Laure, 269

Felix, Joceline V., 207

Ferrari, Annamarie, 7

Fewson, Charles A., 273

Finegold, Sydney M., 125

Flint, Harry J., 139

Fujiwara, Taketomo, 53

Fukumori, Yoshihiro, 53

Gelmi, Marina, 335

Graham, David Y., 177

Gupta, Rani, 287

Hachem, Charles Y., 177

Hamasaki, Mitsuhiro, 217

Hastings, John W., 207

Hespell, Robert B., 343

Holck, Askild L., 63

Huang, Tan-Chi, 201

Hubert, Jean-Claude, 249

Ishii, Takaaki, 91

Itoh, Kenichiro, 331

Joblin, K.N., 133

Kakita, Yukari, 217

Katerov, Viacheslav, 31

Kiffer, E., 1

Kiser, Kevin B., 323

Koga, Yosuke, 53

Kumazawa, Youichi, 53

Kusum, Mayura, 331

Labbé, Ronald G., 163

Laigret, Frédéric, 23

Larsen, Lone M., 95

Lefèvre, G., 1

Legrand, Stéphane, 213

Leisner, Jorgen J., 95

Leitão, Alvaro C., 291

Lett, Marie-Claire, 249

Lisa, Teresita A., 193, 295

Ljungh, Åsa, 113

Lucchesi, Gloria I., 193, 295

Macfarlane, George T., 43

Magot, Michel, 269

Martin, Jennifer, 139

Mathumathi, R., 101

McElreath, Susan D., 57, 145

McFadden, Bruce A., 171

Meister, Martina, 157

Mendoza, Leonel, 151

Miake, Fumio, 217

Momany, Michelle, 151

Moreno-Vivian, C., 241

Nair, G. Balakrish, 331

Nakashima, Yukihiko, 217

Nakazato, Tamotsu, 331

Narberhaus, Franz, 13

Naser, Saleh A., 177

Navarro, Antonio R., 87

Nitzan, Yeshayah, 125

Nordsiek, Gabriele, 157

Ogandjanian, Elena S., 187

Ohba, Michio, 91

Okitsu, Tadayuki, 331

Ollivier, Bernard, 269

Panoff, Jean-Michel, 213

Papathanasiopoulos, Maria A. 207

Paulsson, Marianne, 114

Peroni, Laura, 237

Petitdemange, H., 79

Pich, Andreas, 13

Pizzi, Raul, 237

Porru, Stefano, 335

Porteous, L. Arlene, 301

Ratnakumari, T. Seetha, 101

Raval, G., 79

Ravizzola, Giuseppe, 237

Renaudin, Joël, 23

Reyes, F., 241

Reyssel, Gilles, 229

Rinkel, Monique, 249

Robas, Nathalie, 263

Roldán, María Dolores, 119, 241

Roux, Brigitte, 249

Ruby, Edward G., 279

Rutili, Anna, 7

Sacchi, Giuseppe, 237

Satyanarayana, T., 349

Saxena, R.K., 287

Schalén, Claes, 31

Schiller, Neal L., 37

Current Microbiology

An International Journal

© Springer-Verlag New York Inc. 1994

Schillinger, Ulrich, 63

Schmidt, Michael G., 323

Seidler, Ramon J., 301

Selvapandian, A., 255

Sharmila, P., 287

Shaw, Jie-Fu, 201

Shih, Neng-Jen, 163

Shimada, Toshio, 331

Singh, Surendra, 49, 319

Smith, Arlene A., 207

Smith, Russell L., 311

Stevens, S.E., Jr., 311

Strych, Ulrich, 353

Sudirman, L. Idwan, 1

Szániszlo, Paul J., 151

Tainter, Frank H., 57, 145

Takeda, Yoshifumi, 331

Thammavongs, Bouachanh, 213

Tidemand, Jacob, 95

Totolian, Artem A., 31

Trchounian, Armen A., 187

Turano, Adolfo, 237, 335

Vanian, Polina A., 187

von Holy, Alexander, 207

Wadström, Torkel, 113

Wales, Martin R., 273

Watanabe, Kenji, 217

Watrud, Lidia S., 301

Wexler, Hannah M., 125

Williams, A.G., 133

Winkler, Ulrich K., 353

Withers, S.E., 133

Wohlfarth, Susanne, 353

Yamai, Shiro, 331

Yamanaka, Tateo, 53

Yang, Xiaoyu, 171

Yang, Yunliu, 223

Yao, Jun Mei, 57, 145

Yao, Wensheng, 223

Ye, Fengchun, 23

Yuan, Hsiao-Freng, 201

Zavarzin, George A., 109

Zhang, Jun-Xian, 139

Zhilina, Tatjana N., 109

Zinebi, S., 79

Index to Subjects—Volume 29, 1994

Current Microbiology

An International Journal
© Springer-Verlag New York Inc. 1994

- Acinetobacter* sp. strain HO1-N, ADP-dependent alcohol dehydrogenase purified from, 273
- Affinity chromatography, role of SecA protein from *E. coli* in development of, 323
- Alcaligenes eutrophus*, *Pseudomonas saccharophila* genes transferred to construct xylose-utilizing strains of, 157
- Alginate lyase, mannanan-specific, from *Pseudomonas aeruginosa*, 37
- Alkaliphilic anaerobic community, main functional groups in trophic network of, 109
- α -glucosidase, produced by *Bifidobacterium pseudolongum*, synthesis and activity of, 43
- α -amylase, multiple forms of, in aerobic nitrogen-fixing *Synechococcus* RF-1, 201
- Ammonia, regulation of arginine uptake in *Anabaena cycadeae* by, 49
- Amylose production, by *Clostridium perfringens* type A, effect of glucose on, 163
- Anabaena cycadeae*, arginine metabolism in, 49
- Anaerobic bacteria, inactivation of by photosensitizing porphyrins and hemin, 125
- Arginase, effect of ammonia on uptake of in *Anabaena cycadeae*, 49
- Arginine catabolism of by *Carnobacterium* spp., 95 effect of ammonia on uptake of in *Anabaena cycadeae*, 49
- Autonomously replicating artificial plasmids, role of replication origin (*oriC*) of *Spiroplasma citri* genome in constructing, 23
- Bacillus thuringiensis* serovar *kyushuensis*, identification of protein responsible for mosquito larvicidal activity in, 91
- Bacterial nitrogen assimilation, by *Rhodobacter capsulatus* E1F1, effect of xenobiotics on, 119
- Bacteriocin, from *Carnobacterium piscicola* LV61, purification of, 63
- Betaine, radioactive, production of by incubating *P. aeruginosa* with radioactive choline, 295
- Bifidobacterium pseudolongum*, α -glucosidase produced by, 43
- Botulinum neurotoxin complex M, conserved structure of genes encoding components of, 69
- C-P lyase, cloning of genes encoding for, from *Pseudomonas* isolates, 255
- Cadmium salts, microbial species resistant to, 335
- Carnobacterium piscicola* LV61, purification and cloning of piscolin 61 from, 63
- Carnobacterium* spp., catabolism of arginine by, 95
- Chitin synthase genes, in *Sporothrix schenckii*, 151
- Chlorate, effect on phototrophic growth of *R. sphaeroides* and *R. capsulatus* strains, 241
- Choline, radioactive, production of labeled betaine by incubation of *P. aeruginosa* with, 295
- Choline metabolism, role in enzyme activities in *Pseudomonas aeruginosa*, 193
- Cholinesterase cell bound, activity in *Trichoderma harzianum* of, 287
role in pathogenicity of *E. coli*, 193
- Ciprofloxacin, protective effect against *Mycobacterium tuberculosis* in animal models, 237
- Clostridium acetobutylicum* strain ABKn8, cloning and sequencing of DNA fragment of, 229
- Clostridium botulinum* type F, genes encoding botulinum neurotoxin complex M in, 69
- Clostridium perfringens* type A, effect of glucose on sporulation and amylase production by, 163
- Clostridium thermosulfurigenes* EM1, see *Thermoanaerobacterium thermosulfurigenes* EM1
- Cold shock response, of *Lactococcus lactis* subsp. *lactis*, 213
- Cyanobacterium anabaena* 7120, role of intracellular glutamine level in regulation of glutamine uptake in, 319
- Cystic fibrosis, role of *Pseudomonas aeruginosa* alginate lyase in treating, 37
- CytB protein, responsible for mosquito larvicidal activity of *B. thuringiensis* serovar *kyushuensis*, 91
- Cytochrome bc, purified from *Methanosaerina barkeri*, 53
- Discula destructiva* double-stranded RNA in isolates of, 57
genetic relatedness among double-stranded RNA from isolates of, 145
- DNA, UV-damaged, H₂O₂-induced repair of, 291
- DNA amplification, effect on protease production and sporulation in *Streptomyces fradiae*, 101
- DNA extraction method, for PCR amplification and DNA fingerprint analysis, 301
- DNA fingerprint analysis, method to extract DNA from environmental samples for, 301
- DNA fragment, of *Clostridium acetobutylicum* strain ABKn8, effect on *E. coli recA* strains, 229
- DNA synthesis, role of permeabilization of *Synechocystis* PCC 6803 in, 171
- dnaA* gene, of *Spiroplasma citri*, role in autonomously replicating sequences, 23
- dnaK* gene, detected in *Thermoanaerobacterium thermosulfurigenes* EM1, 13
- Double-stranded RNA (dsRNA) from *Discula destructive* isolates, genetic relatedness among, 145
in isolates of *Discula destructiva*, 57
- Electroporation, transformation of *L. casei* with plasmid pHY300PLK by, 217
- EMML15 protein, relation to IgG-binding proteins, 31
- coli recA* strains, chemical-damaging agents and UV resistance conferred to, 229
- Escherichia coli* anaerobically grown, osmosensitivity of 2H⁺/K⁺ exchange and F₀F₁, 187
expression of penicillin G amidase gene of, 263
H₂O₂-induced repair of UV-damaged DNA in, 291
inhibitory activity and absorption of cadmium salts by, 335
rapid purification of native SecA from, 323
- Escherichia coli recA* strains, chemical-damaging agents and UV resistance conferred to, 229
- Ethanol fermentation, by *Saccharomyces cerevisiae*, effect of furfural on, 87
- Euprymna scolopes*, plasmid DNA in *Vibrio fischeri* from, 279
- Fc receptors, streptococcal, classification of according to IgG-binding pattern, 31
- Furfural, effect on ethanol fermentation by *Saccharomyces cerevisiae*, 87
- Gel electrophoresis, overexpression of proteins in *Lactococcus lactis* subsp. *lactis* shown by, 213
- Glucose, effect on sporulation and amylase production by *Clostridium perfringens* type A, 163
- Glutamine, uptake in *Cyanobacterium anabaena* 7120 and intracellular level of, 319
- groE* gene, detected in *Thermoanaerobacterium thermosulfurigenes* EM1, 13

- H⁺-ATPase complex F₀F₁, in *E. coli*, osmosensitivity of, 187**
- H⁺/K⁺ exchange, in *E. coli*, osmosensitivity of, 187**
- Heat shock proteins, *Thermoanaerobacterium thermosulfurigenes* EM1 synthesis of, 13**
- Hemin, photodynamic effect on anaerobic bacteria, 125**
- Heparin, lactoferrin and vitronectin binding to *Staphylococcus aureus* inhibited by, 113**
- Human subgingival plaque, new methanogenic bacterium found in, 7**
- Hydrogen cyanide synthase, influence of oxygen on, 19**
- Hydrogen oxidation, by *Thermoanaerobacter* sp. in presence of thiosulfate, 269**
- Hydrogen peroxide, repair of UV-damaged DNA in *E. coli* induced by, 291**
- Immunoglobulin-binding proteins, from *Streptococcus pyogenes*, classification of, 31**
- Klebsiella oxytoca* ZS, effect of oxygenation and sulfate concentrations on pyruvate and lactate formation in, 79**
- Klebsiella pneumoniae* strain, role of transposon Tn5403 in plasmid mobilization by, 249**
- Lactate formation, in *Klebsiella oxytoca* ZS, effect of oxygenation and sulfate concentrations on, 79**
- Lactobacillus casei*, transformation of, with plasmid pHY300PLK by electroporation, 217**
- Lactococcus lactis* subsp. *lactis*, cold shock response in, 213**
- Lactoferrin, heparin-inhibited binding to *Staphylococcus aureus*, 113**
- Lentinus squarrosulus*, purification of antibiotics produced by, 1**
- Leucocin B-Ta11a, bacteriocin from *Leuconostoc carnosum* Ta11a, isolated from meat, 207**
- Leuconostoc carnosum* Ta11a, isolated from meat, characterization of bacteriocin produced by, 207**
- lexA* mutants, role in repair of UV-damaged phages, 291**
- Ls2 compound, produced by *Lentinus squarrosulus*, antibiotic against *Rigidoporus lignosus*, 1**
- Lyzozyme/EDTA, role in study of DNA synthesis, 171**
- Malbranchea pulchella* var. *sulfurea* TMD-8, xylose metabolism in, 349**
- Mathematical models, of effect of furfural on ethanol fermentation, 87**
- Metal absorption, by different microbial species, 335**
- Methanobrevibacter oralis* sp. nov., isolation and characterization of, 7**
- Methanobrevibacter smithii* PS, cocultivated with *Ruminococcus flavefaciens*, effect on xylanolysis, 133**
- Methanosarcina barkeri*, cytochrome bc purified from, 53**
- Mycobacterium paratuberculosis*, identification and classification of recombinant proteins of, 177**
- Mycobacterium tuberculosis*, assessment of three antibiotics for treating, 237**
- NADH/NAD⁺ ratio, in *Klebsiella oxytoca* ZS, effect of oxygen supply on, 79**
- NADP-dependent alcohol dehydrogenase, purified from *Acinetobacter* sp. strain HO1-N, 273**
- Nocardia asteroides*, transformation of, by using shuttle vector pCY104, 223**
- Nocardia corallina*, transformation of, by using shuttle vector pCY104, 223**
- Nocardia* spp., cloning vector system for, 223**
- NTNH* gene, of nonproteolytic *Clostridium botulinum* type F, sequence of, 69**
- oriC*, of *Spiroplasma citri* chromosome, cloning and sequencing of, 23**
- Orotidine-5'-monophosphate decarboxylase, from *P. aeruginosa* PAO1, cloning, overexpression, and characterization of, 353**
- Osmosensitivity, of 2H⁺/K⁺ exchange and H⁺-ATPase complex F₀F₁, 187**
- Oxygen, influence on *P. aeruginosa* hydrogen cyanide synthase, 19**
- Penicillin G amidase (PGA) gene, of *E. coli*, expression of, 263**
- pga* gene, in *E. coli*, transcription start site of, 263**
- Phosphatase, role in pathogenicity of *E. coli*, 193**
- Phospholipase C, role in pathogenicity of *E. coli*, 193**
- Piscicolin 61, from *C. piscicola* LV61, purification and cloning of, 63**
- Plasmid DNA, occurrence in symbiotic *Vibrio Fischeri* from sepiolid squid, 279**
- Plasmid pHY300PLK, transformation of *Lactobacillus casei* with, 217**
- Polysaccharide granules, in aerobic nitrogen-fixing *Synechococcus* RF-1, 201**
- Polymer chain reaction (PCR)**
- chitin synthase homologs from *Sporothrix schenckii* amplified by, 151
 - genes of proteins associated with botulinum neurotoxin (BoNT) studied by, 69
 - *NTNH* gene of *Clostridium botulinum* type C amplified by, 69
- Polymerase chain reaction amplification, method to extract DNA from environmental samples for, 301**
- Polysaccharolytic enzyme activities, effect of cocultivation of *Ruminococcus flavefaciens* with hydrogen-consuming bacteria on, 133**
- Porphyrins, photodynamic effect on anaerobic bacteria, 125**
- Primer extension analysis, PGA gene expression in *E. coli* by, 263**
- Protease production, in *Streptomyces fradiae*, effect of DNA amplification of, 101**
- Protein H, M-like protein immunoglobulin binding compared to that of, 31**
- Proteus mirabilis*, inhibitory activity and absorption of cadmium salts by, 335**
- psc61* gene, cloning and sequencing of, from *C. piscicola* LV61, 63**
- Pseudomonas aeruginosa***
- influence of oxygen on hydrogen cyanide production by, 19
 - inhibitory activity and absorption of cadmium salts by, 335
 - mannuronan-specific alginate lyase from, 37
 - production of radioactive betaine by incubation of, 295
 - role of choline in pathogenicity of, 193
- Pseudomonas aeruginosa* PAO1**
- characterization of orotidine-5'-mono-phosphate decarboxylase from, 353
 - cryptic allele for C-P lyase on chromosome of, 255
- Pseudomonas isolates* PG2982 and GLC11, cloning of genes encoding for C-P lyases from, 255**
- Pseudomonas saccharophila*, genes from transferred to *Alcaligenes eutrophus*, 157**
- Pyocyanin, hydrogen cyanide synthase-mediated cyanide production by, 19**
- pyrF* gene, encoding OMPDecase from *P. aeruginosa*, isolation of, 353**
- Pyruvate formation, in *Klebsiella oxytoca* ZS, effect of oxygenation and sulfate concentrations on, 79**
- recA* mutant, role in repair in UV-damaged phages, 291**
- Recombinant proteins, of *Mycobacterium paratuberculosis*, isolation and characterization of, 177**
- Rhodobacter capsulatus*, chlorate and nitrate reduction in, 241**
- Rhodobacter capsulatus* E1F1, effect of xenobiotics on inorganic nitrogen assimilation by, 119**
- Rhodobacter sphaeroides*, chlorate and nitrate reduction in, 241**
- Rifampicin, protective effect against *Mycobacterium tuberculosis* in animal models, 237**
- Rigidoporus lignosus*, characterization of compound active against, 1**
- Rufloxacin, protective effect against *Mycobacterium tuberculosis* in animal models, 237**

- Ruminococcus flavefaciens*, effect of cocultivation with hydrogen-consuming bacteria on xylanolysis by, 133
expression of xylanases in, 139
- Saccharomyces cerevisiae*, effects of furfural on ethanol fermentation by, 87
- Salmonella typhimurium*, inhibitory activity and absorption of cadmium salts by, 335
- SecA protein, role in affinity chromatography procedure for rapid purification, 323
- Spirochaeta thermophila*, xylanolytic activities of, 343
- Spiroplasma citri*, cloning and sequencing of replication origin of, 23
- Sporothrix schenckii*, chitin synthase genes in, 151
- Sporulation
by *Clostridium perfringens* type A, effect of glucose on, 163
in *Streptomyces fradiae*, effect of DNA amplification of, 101
- Staphylococcus aureus*
inhibition of lactoferrin and vitronectin binding to, 113
inhibitory activity and absorption of cadmium salts by, 335
- Staphylococcus epidermidis*, inhibitory activity and absorption of cadmium salts by, 335
- Starch, role of α -glucosidase in bifidobacteria use of, 43
- Streptococcus pyogenes* type M15, M-like immunoglobulin-binding protein from, 31
- Streptomyces fradiae*, DNA amplification affects protease production and sporulation in, 101
- Synechococcus* PCC7002, genotypic mutants of, unable to use nitrate, 311
- Synechococcus* RF-1, uncommon polyglucan granules and multiple forms of α -amylase in, 201
- Synechocystis* PCC 6803, study of DNA synthesis in, 171
- Thermoanaerobacter* sp., H₂ oxidation ability of, in presence of thiosulfate, 269
- Thermoanaerobacterium thermosulfurigenes* EM1, synthesis of heat shock proteins in, 13
- Thiosulfate, H₂ oxidation by *Thermoanaerobacter* sp. in presence of, 269
- Tn5403 transposon, in *Klebsiella pneumoniae* strain, helper function of, 249
- Trichoderma harzianum*, cell-bound cholinesterase in, 287
- uvrA* mutant, role in repair in UV-damaged phages, 291
- Vacuum-packed sugar-salted fish, catabolism of arginine by *Carnobacterium* spp. isolated from, 95
- Vibrio cholerae* Non-O1 strains, with somatic (O) antigen factors in common with *V. cholerae* O139, 331
- Vibrio cholerae* serogroup O139, synonym "Bengal," *V. cholerae* Non-O1 strains in common with, 331
- Vibrio fischeri*, occurrence of plasmid DNA in, 279
- Vitronectin, heparin-inhibited binding to *Staphylococcus aureus*, 113
- Xenobiotics, effect on inorganic nitrogen assimilation by *Rhodobacter capsulatus* E1F1, 119
- Xylan, degradation and utilization of, in *Spirochaeta thermophila*, 343
- Xylanase, in *Ruminococcus flavefaciens*, 139
- Xylanosis, by *Ruminococcus flavefaciens*, effect of cocultivation with hydrogen-consuming bacteria on, 133
- Xylose, transfer of *Pseudomonas saccharophila* genes to *Alcaligenes eutrophus* to allow growth of, 157
- Xylose metabolism, in thermophilic mold, 349
- xynA* gene, of *Ruminococcus flavefaciens*, polyclonal antibodies against XYNA protein produced by, 139